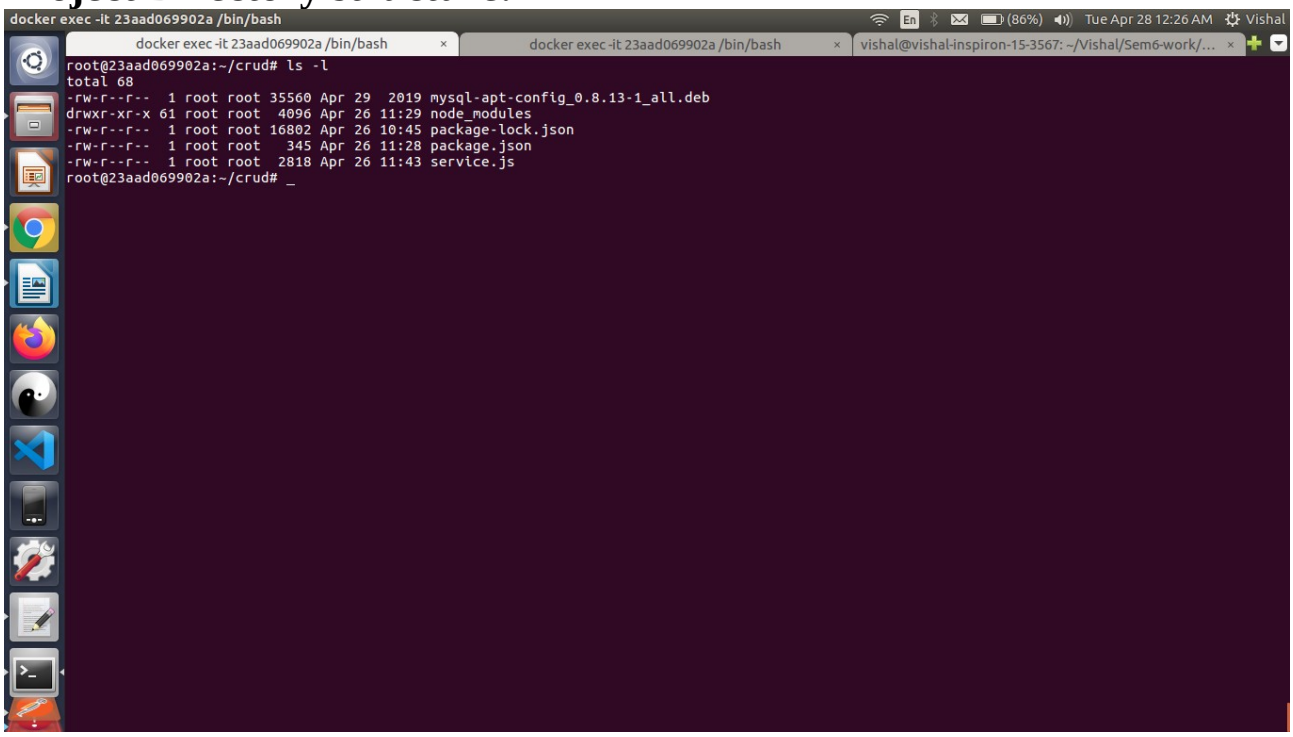
Roll Number:17134
Name: Vishal Kokane
Assignment 2:Docker
Git URL:https://github.com/vishalkokane264/pucsd2020-devops

This assignment is of building REST api using CRUD operations.
I've used nodejs +mysql in base docker image of ubuntu.

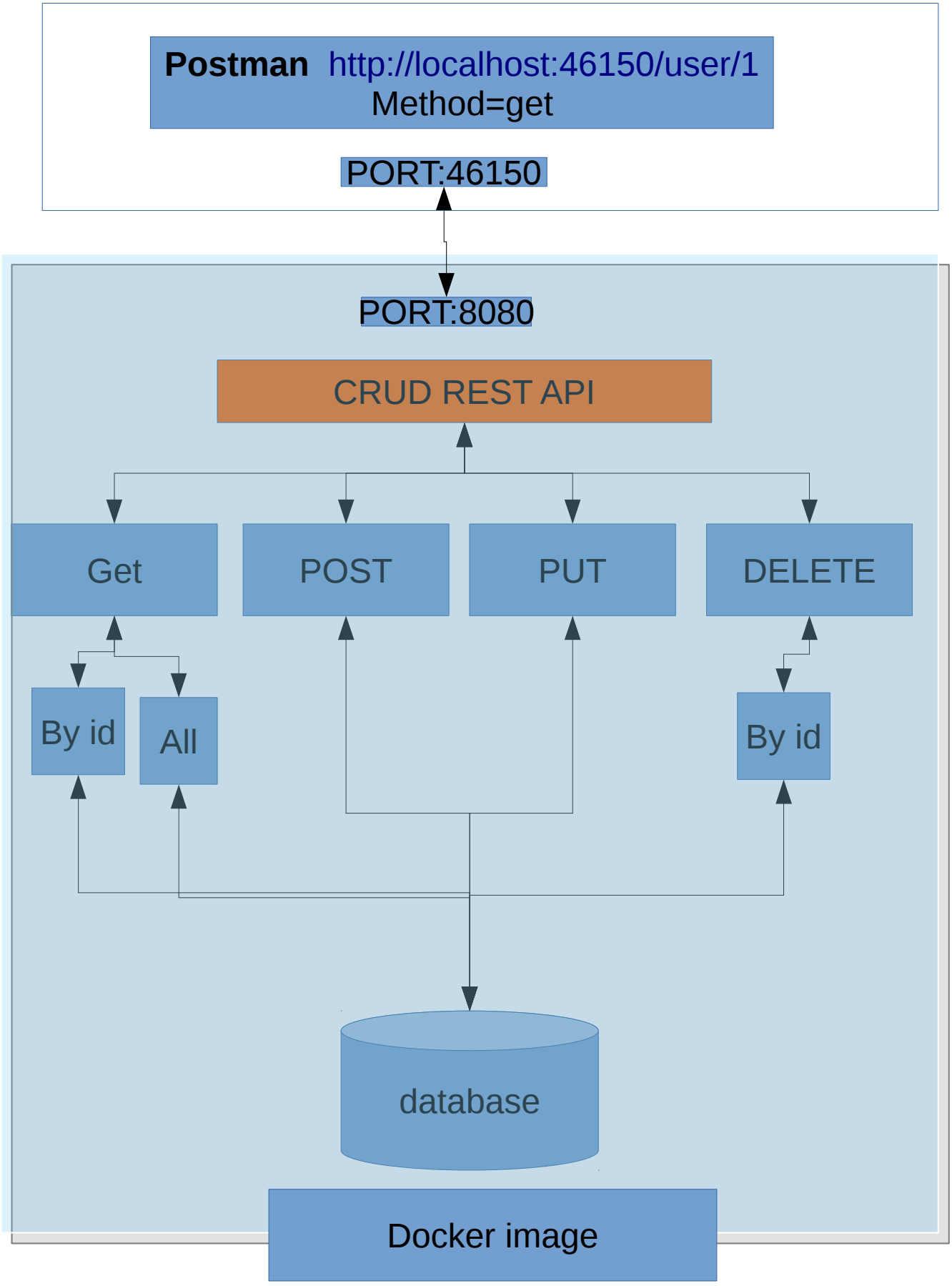
Project Directory structure:



Api Documentation:

Method	URL	Description	
GET by id	http://localhost:46150/user/:id	Get user by user id	
Get (all)	http://localhostL46150/user	Get all users	
POST	http://localhost:46150/user	Add user in database	
PUT	http://localhost:46150/user	Update username using userid	
DELETE(id)	http://localhost:46150/user/id	Delete user using userid	

Flow diagram

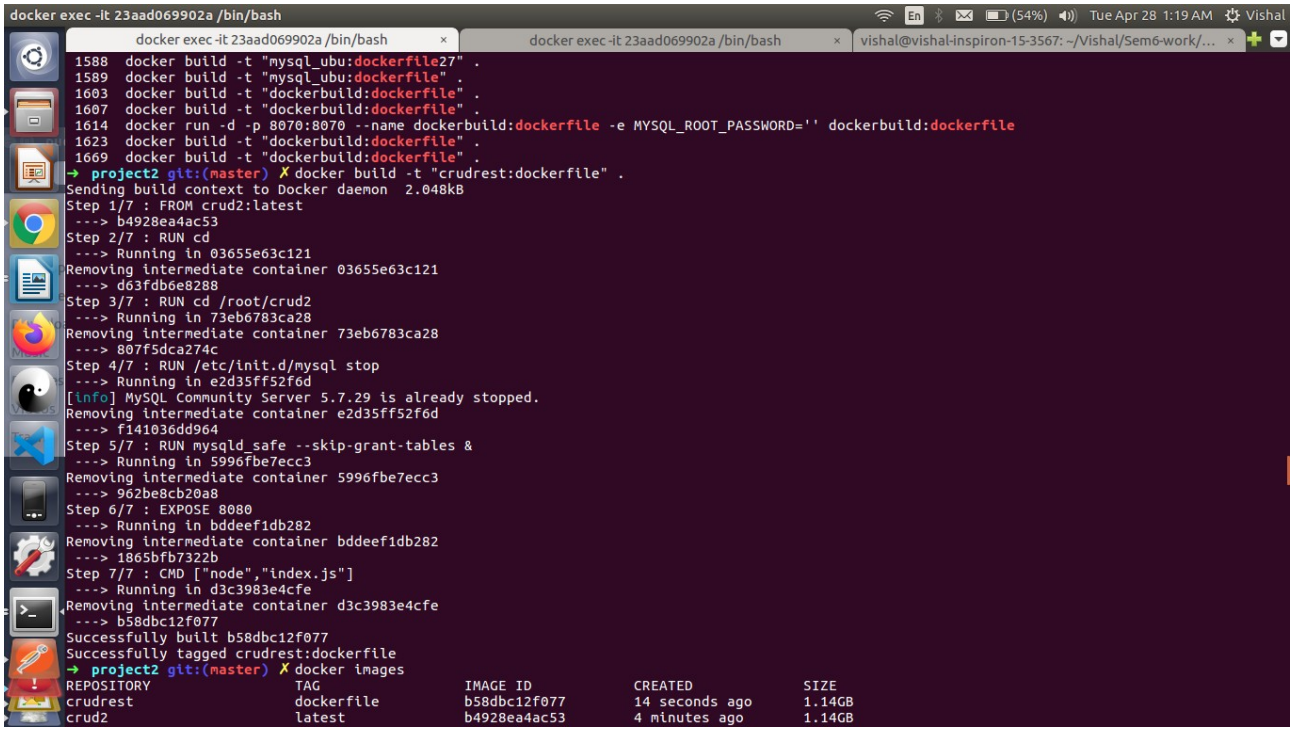


dockerfile:

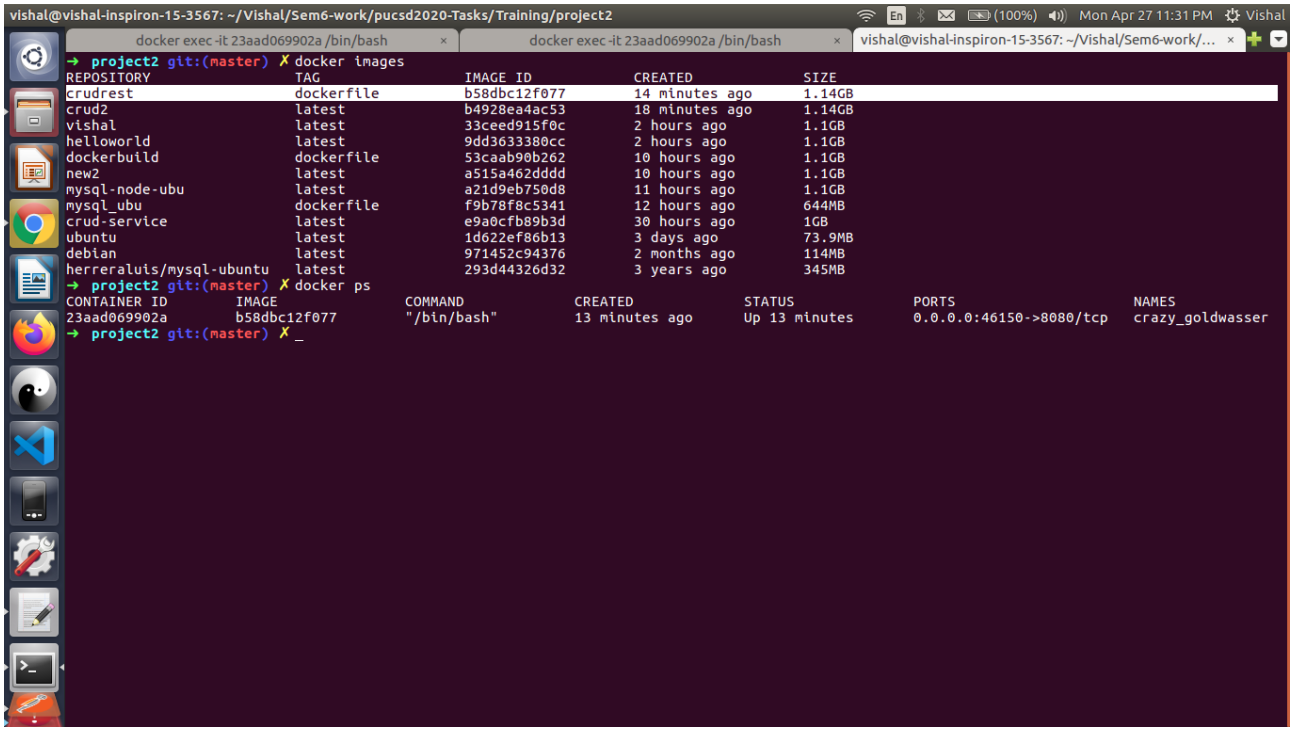
```
FROM debian:latest

RUN cd
RUN apt-get update && apt-get install -y wget
RUN wget https://dev.mysql.com/get/mysql-apt-
config_0.8.13-1_all.deb
RUN dpkg -i mysql-apt-config_0.8.13-1_all.deb
RUN apt-get update
RUN apt-get install -y mysql-server && apt-get
install -y nodejs && apt-get install -y npm

COPY nodejs/ /root/crud

RUN cd /root/crud
RUN npm install

RUN /etc/init.d/mysql stop

RUN mysqld_safe --skip-grant-tables &

RUN mysql < database.sql

EXPOSE 8080

CMD ["node","service.js"]
```

Snapshot:

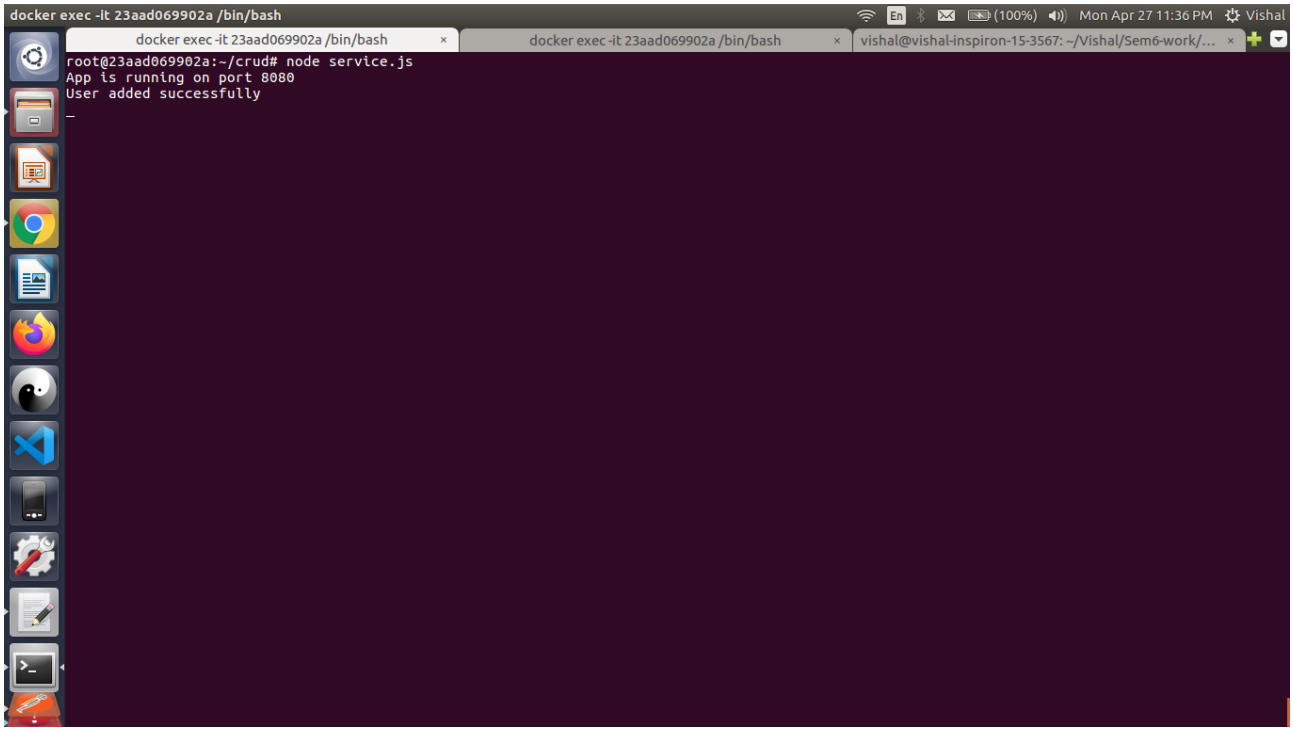
Running Docker file



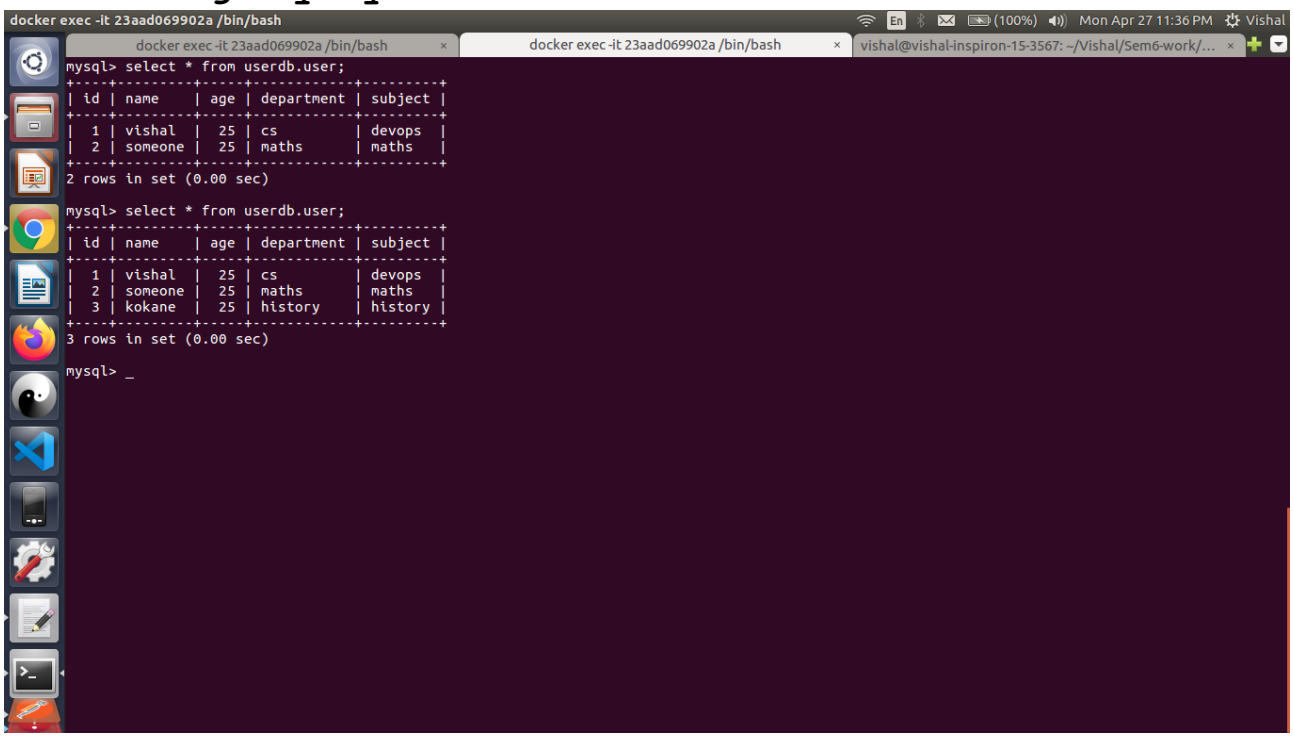
1)Docker images && container running



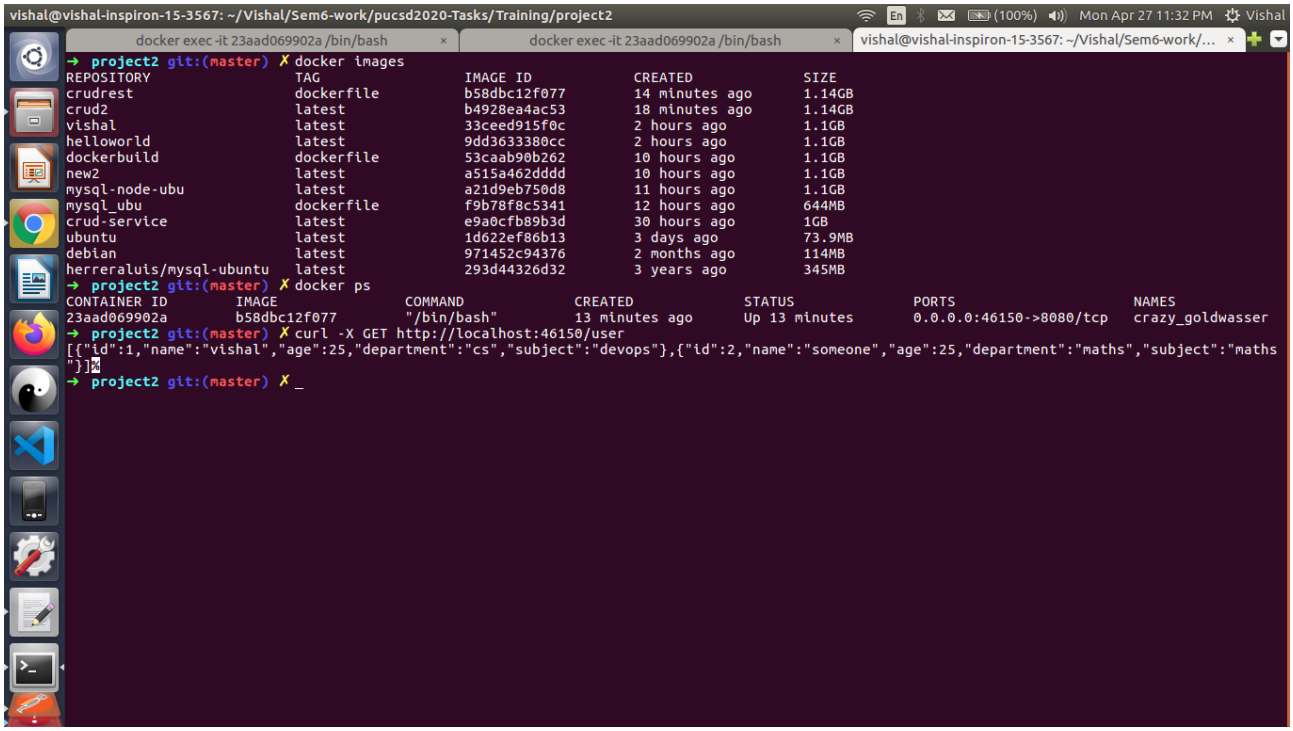
2)Nodejs service running on port 8080



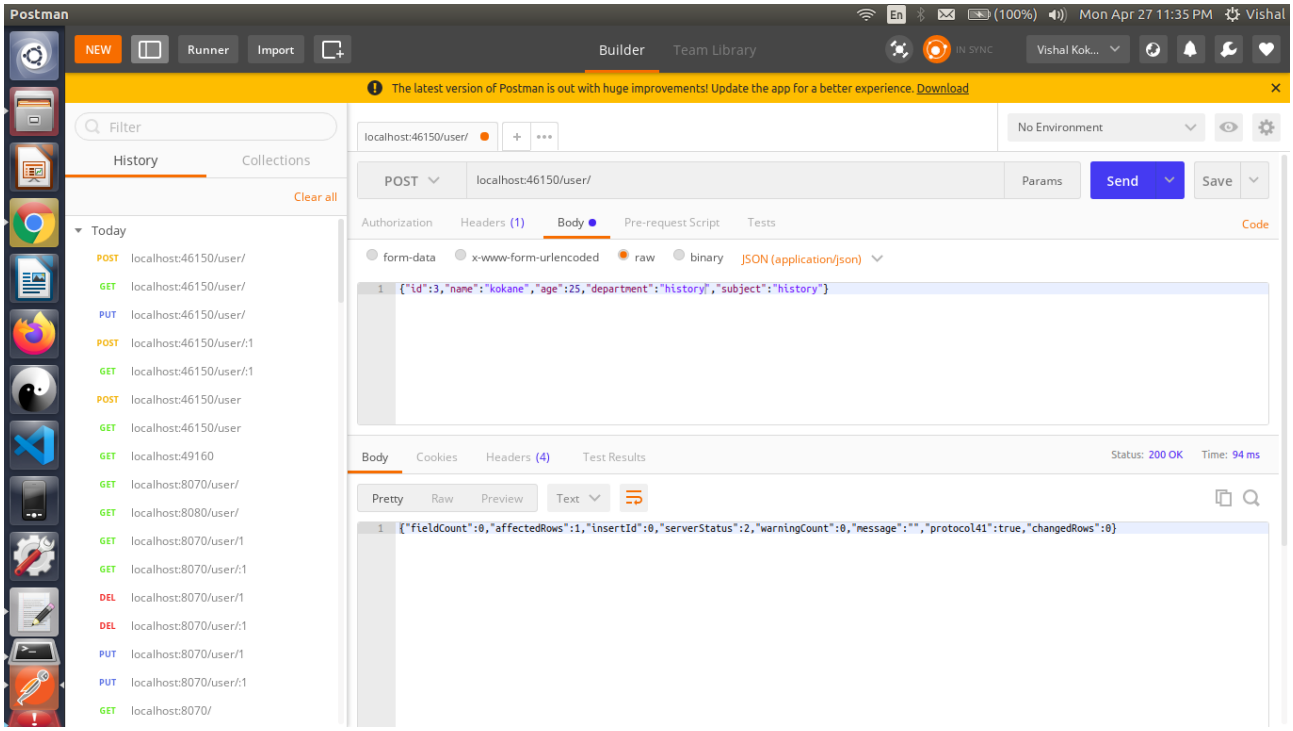
3)Another same container running for checking mysql data



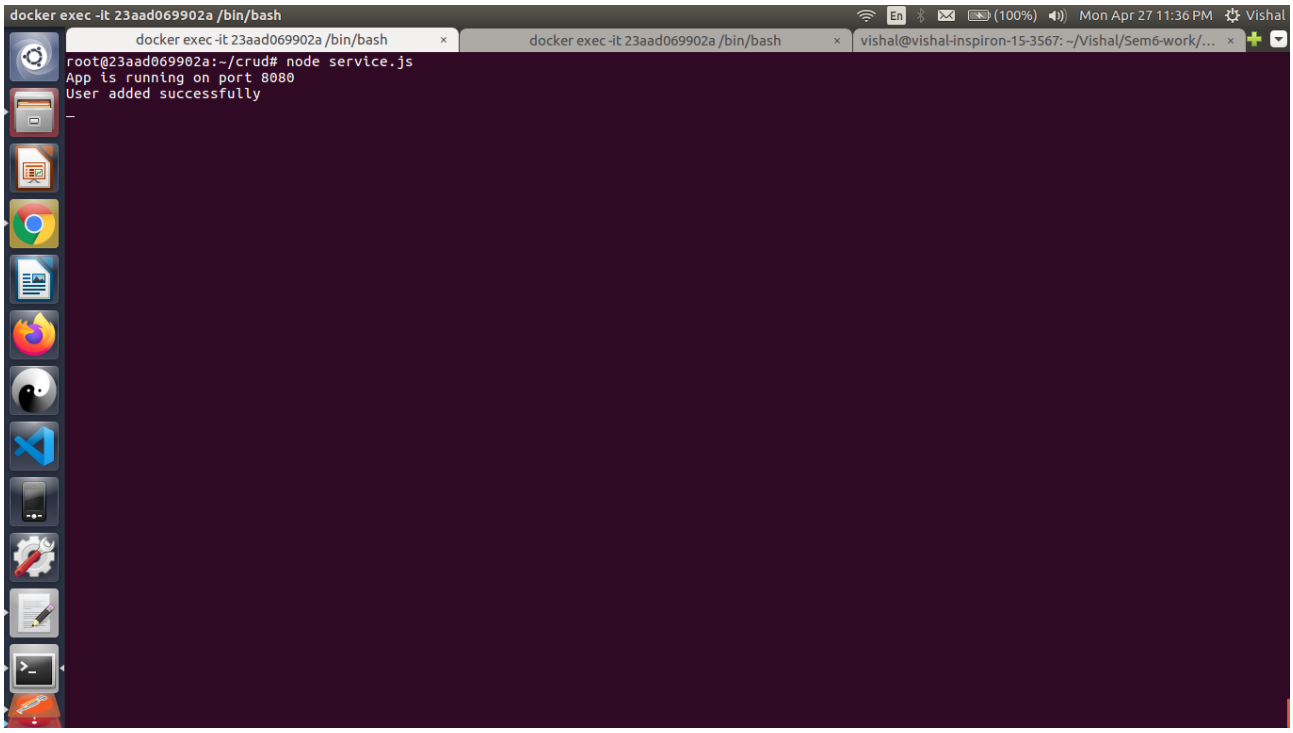
4)Validating service using CURL get request



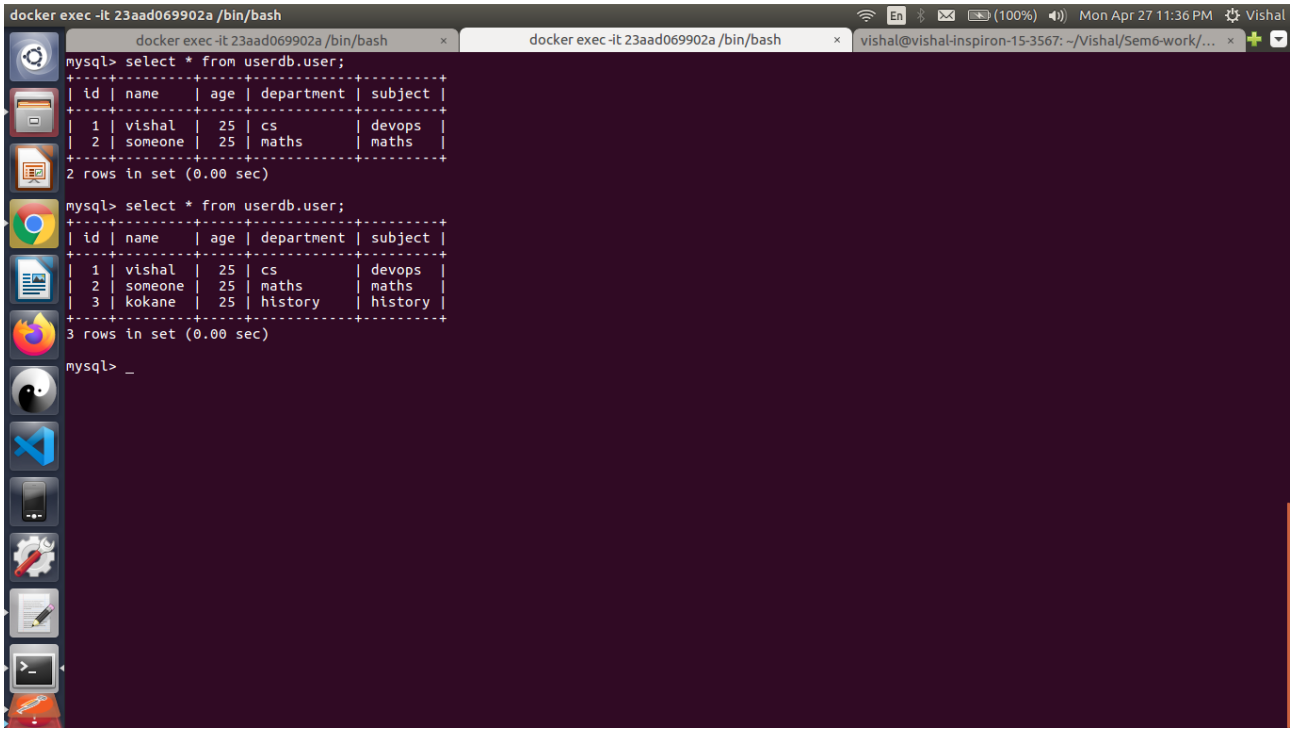
5)Postman POST method:



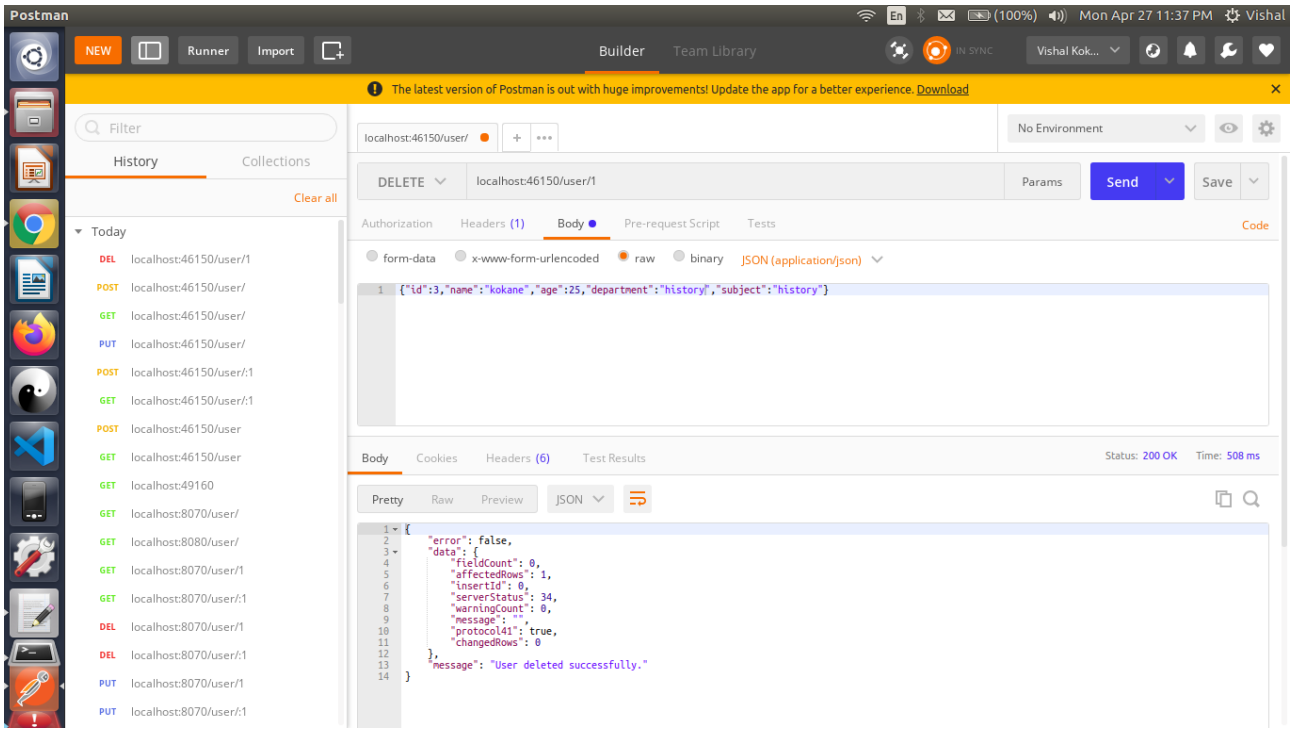
5.1) User added Successfully



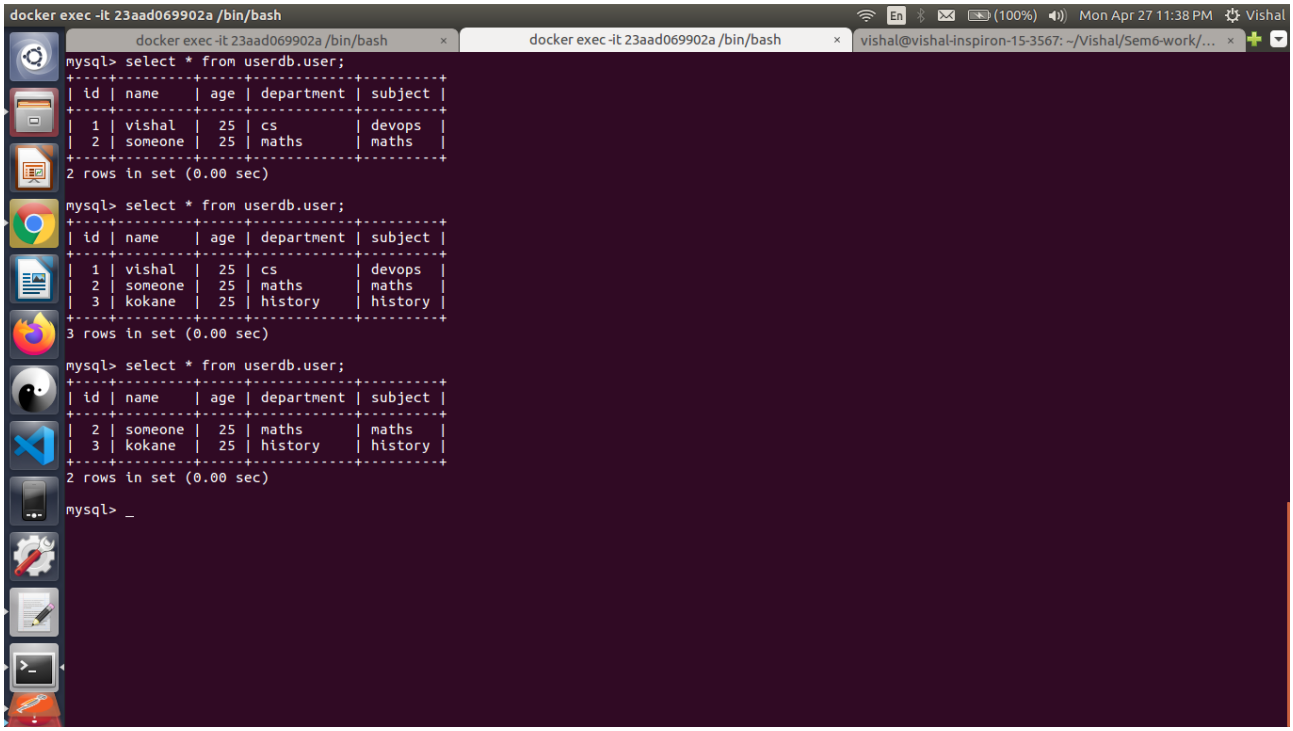
5.2)Mysql result of POST



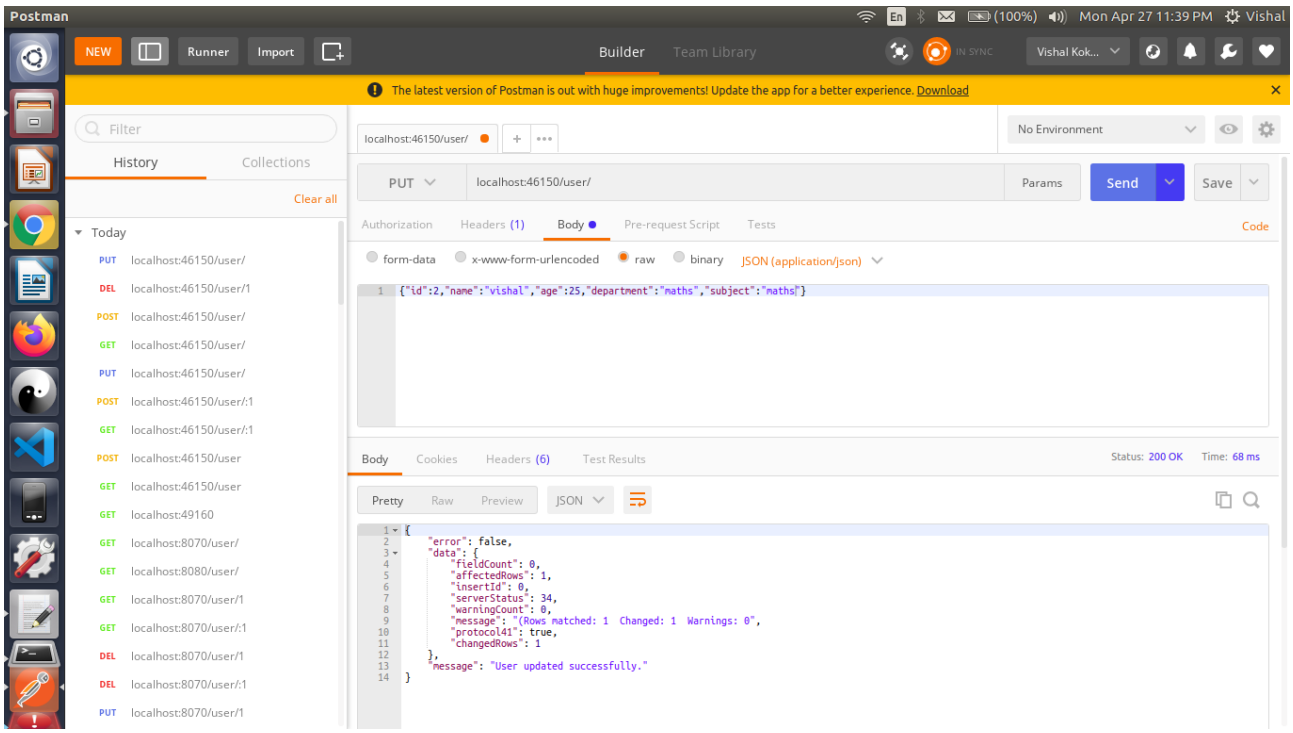
6)Postman delete data with user id =1



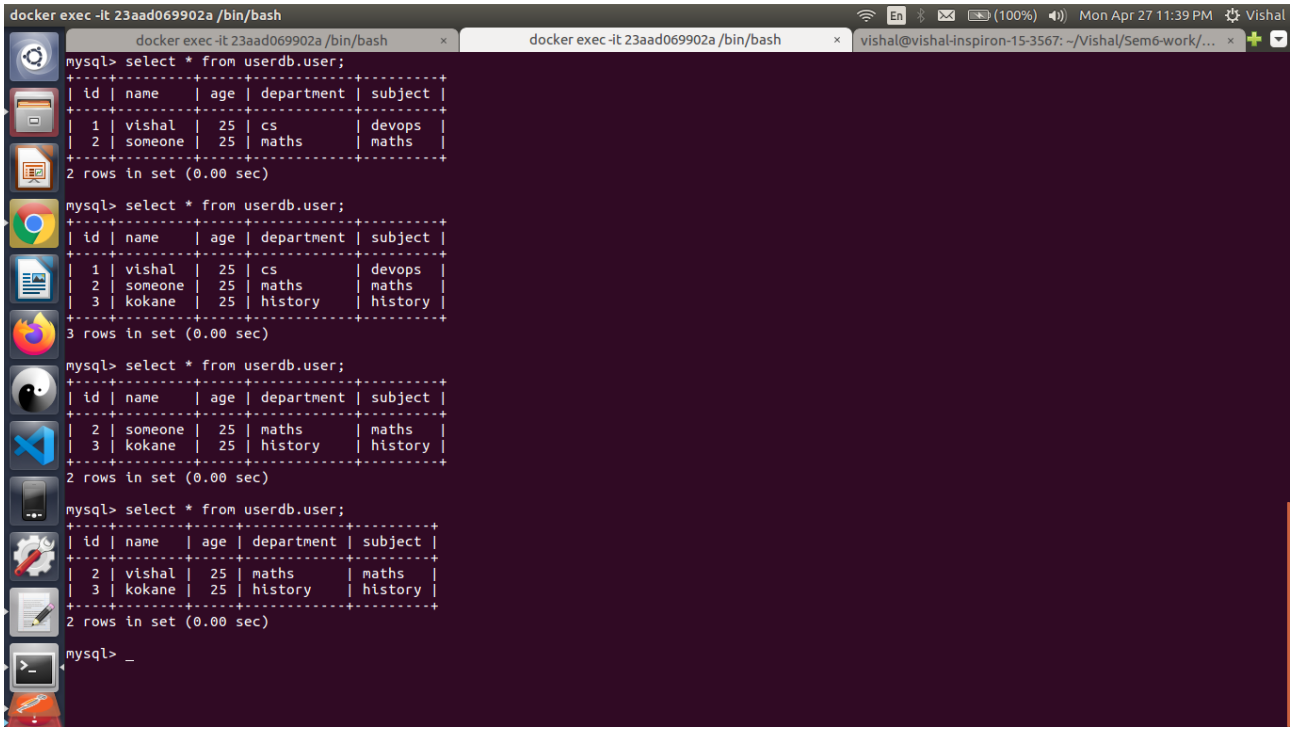
6.2)Mysql status



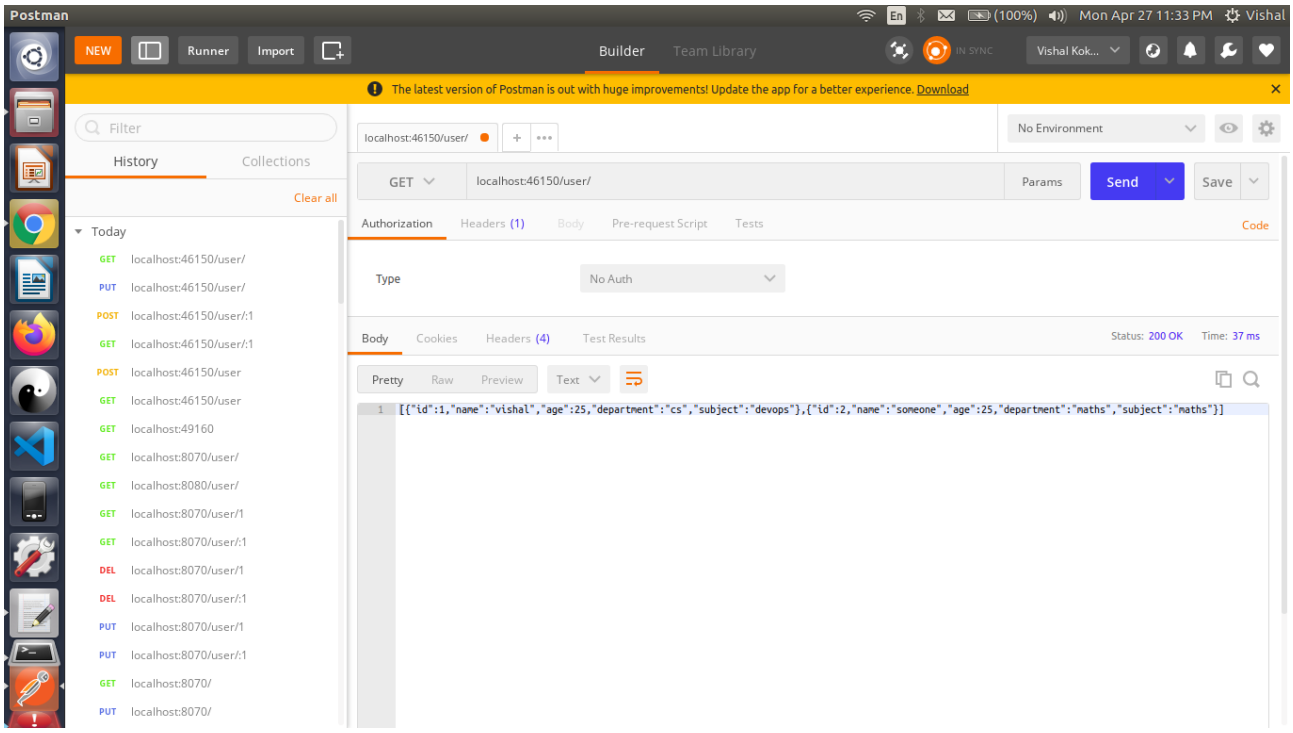
7)Postman PUT :update user name using userid



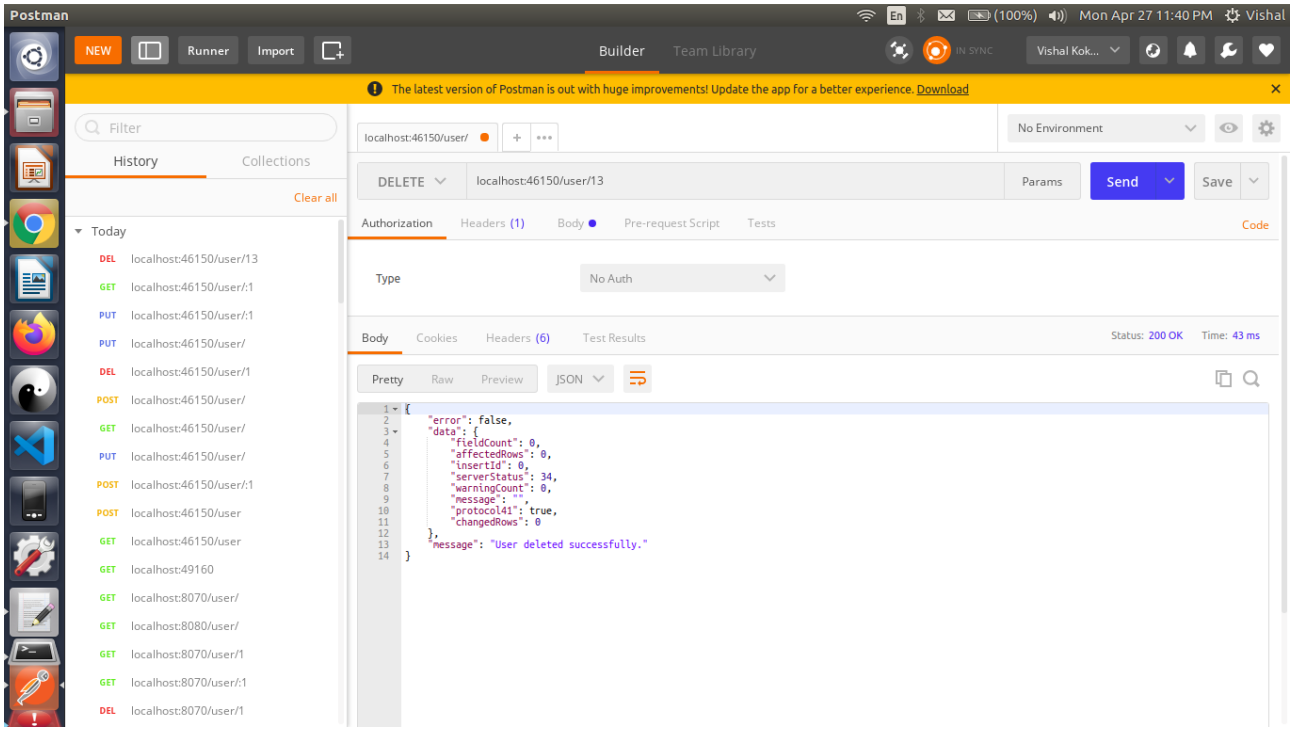
7.2)Mysql update status



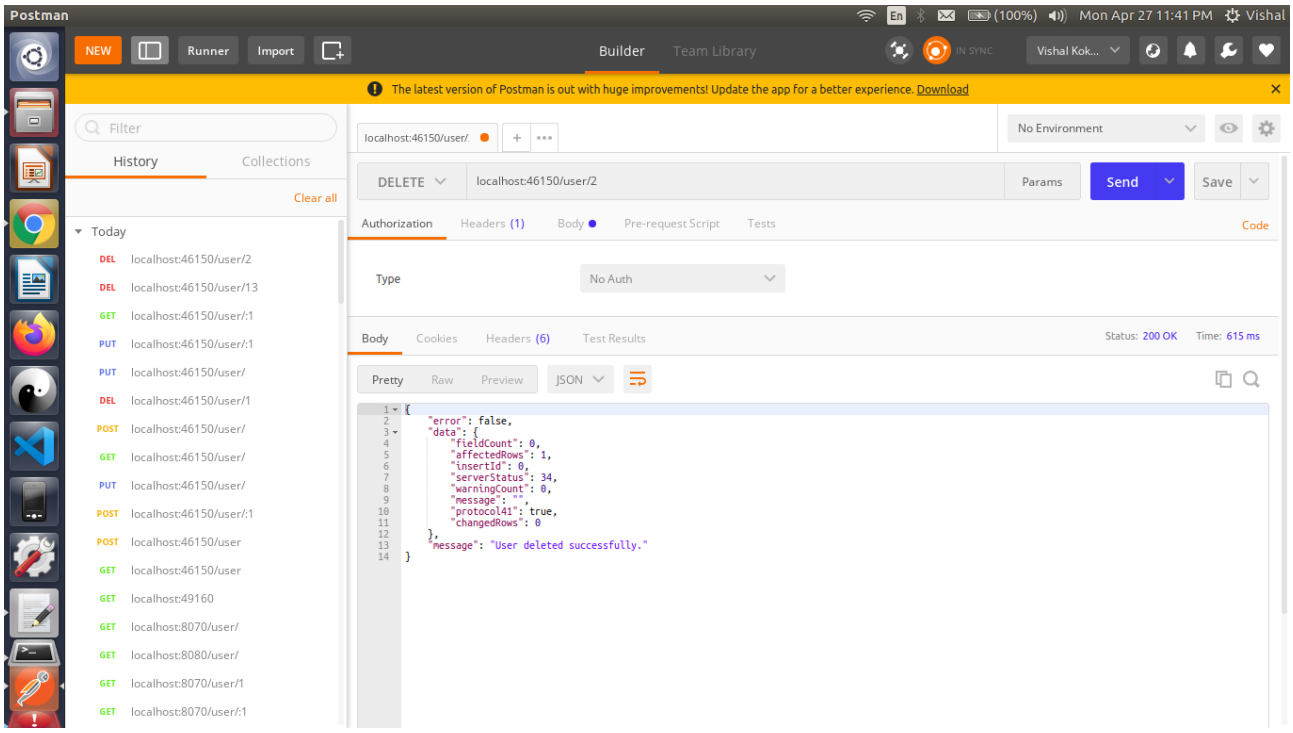
8)Postman get all records



9)Postman delete fail record not exist



10)Postman delete Success



11)Postman Get by id